

REC'D 27 APR 2000

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

PCT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference B0801/7101WO	FOR FURTHER ACTION	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)
International application No. PCT/US99/08502	International filing date (day/month/year) 23 April 1999 (23.04.1999)	Priority date (day/month/year) 24 April 1998 (24.04.1998)
International Patent Classification (IPC) or national classification and IPC IPC(7): A61K 31/70, 38/17, 39/00; C07H 21/00, 21/04; C12N 5/06, 5/16, 15/85; C12Q 1/68 and US Cl.: 435/6, 320.1, 325, 375; 530/300, 350; 514/2, 44; 536/23.5, 24.31, 24.5		
Applicant THE BRIGHAM AND WOMEN'S HOSPITAL, INC.		

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.

2. This REPORT consists of a total of 5 sheets, including this cover sheet.

This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

These annexes consist of a total of 0 sheets.

3. This report contains indications relating to the following items:

- I Basis of the report
- II Priority
- III Non-establishment of report with regard to novelty, inventive step and industrial applicability
- IV Lack of unity of invention
- V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI Certain documents cited
- VII Certain defects in the international application
- VIII Certain observations on the international application

Date of submission of the demand 15 October 1999 (15.10.1999)	Date of completion of this report 04 April 2000 (04.04.2000)
Name and mailing address of the IPEA/US Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231 Facsimile No. (703) 305-3230	Authorized officer Thomas G. Larson, Ph.D.  Telephone No. (703) 308-0196

I. Basis of the report

1. With regard to the elements of the international application:*

the international application as originally filed.

the description:
pages 1-56 as originally filed
pages NONE, filed with the demand
pages NONE, filed with the letter of _____

the claims:
pages 57-68, as originally filed
pages NONE, as amended (together with any statement) under Article 13
pages NONE, filed with the demand
pages NONE, filed with the letter of _____

the drawings:
pages 1-3, as originally filed
pages NONE, filed with the demand
pages NONE, filed with the letter of _____

the sequence listing part of the description:
pages 1-17, as originally filed
pages NONE, filed with the demand
pages NONE, filed with the letter of _____

2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language _____ which is:

the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).

the language of publication of the international application (under Rule 48.3(b)).

the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).

3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

contained in the international application in printed form.

filed together with the international application in computer readable form.

furnished subsequently to this Authority in written form.

furnished subsequently to this Authority in computer readable form.

The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. The amendments have resulted in the cancellation of:

the description, pages _____

the claims, Nos. _____

the drawings, sheets/figs _____

5. This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**

* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).

** Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International Application No.

PCT/US99/08502

III. Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

1. The question whether the claimed invention appears to be novel, to involve an inventive step (to be non-obvious), or to be industrially applicable have not been and will not be examined in respect of:

the entire international application.
 claims Nos. 55-98

because:

the said international application, or the said claim Nos. _____ relate to the following subject matter which does not require international preliminary examination (*specify*):

the description, claims or drawings (*indicate particular elements below*) or said claims Nos. _____ are so unclear that no meaningful opinion could be formed (*specify*):

the claims, or said claims Nos. _____ are so inadequately supported by the description that no meaningful opinion could be formed.
 no international search report has been established for said claims Nos. 55-98

2. A meaningful international preliminary examination cannot be carried out due to the failure of the nucleotide and/or amino acid sequence listing to comply with the standard provided for in Annex C of the Administrative Instructions:

the written form has not been furnished or does not comply with the standard.
 the computer readable form has not been furnished or does not comply with the standard.

IV. Lack of unity of invention

1. In response to the invitation to restrict or pay additional fees the applicant has:

- restricted the claims.
- paid additional fees.
- paid additional fees under protest.
- neither restricted nor paid additional fees.

2. This Authority found that the requirement of unity of invention is not complied with and chose, according to Rule 68.1, not to invite the applicant to restrict or pay additional fees.

3. This Authority considers that the requirement of unity of invention is accordance with Rules 13.1, 13.2 and 13.3 is

- complied with.
- not complied with for the following reasons:

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1. In order for all inventions to be examined, the appropriate additional examination fees must be paid.

Group I, claim(s) 1-21, drawn to a nucleic acid encoding the CNREB-2 protein, the CNREB-2 protein, and a method of isolating a nucleic acid encoding the CNREB-2 protein.

Group II, claim(s) 22-38, drawn to methods of using a CNREB-1 inhibitor to decrease rennin expression in a cell or in a subject.

Group III, claim(s) 39-54, drawn to a method of using a CNREB-1 activator to increase CNREB-1 activity in a cell or in a subject.

The inventions listed as Groups I-III do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: Under Rule 13 there is unity of invention between an independent claim to a composition, and independent claim for preparing that composition, and an independent claim for using that composition. Group I contains an independent claim to the nucleic acid encoding the CNREB-2 protein and an independent claim to a method of isolating the nucleic acid encoding the CNREB-2 protein. Groups II and III are drawn to methods involving the CNREB-1 protein. The CNREB-1 and CNREB-2 proteins appear to be distinct compositions so that there is no common special technical feature linking the methods related to the CNREB-1 protein to the compositions related to the CNREB-2 protein. Therefore, the claims of groups I-III do not relate to a single inventive concept under PCT Rule 13.

4. Consequently, the following parts of the international application were the subject of international preliminary examination in establishing this report:

- all parts.
- the parts relating to claims Nos. 1-54

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**1. STATEMENT**

Novelty (N)	Claims <u>1-54</u>	YES
	Claims <u>NONE</u>	NO
Inventive Step (IS)	Claims <u>1-54</u>	YES
	Claims <u>NONE</u>	NO
Industrial Applicability (IA)	Claims <u>1-54</u>	YES
	Claims <u>NONE</u>	NO

2. CITATIONS AND EXPLANATIONS (Rule 70.7)

Claims 1-54 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest a nucleic acids encoding the CNREB-2 protein, methods of inhibiting CNREB-1 expression, or methods of increasing CNREB-1 activity.

Claims 1-54 meet the criteria set out in PCT Article 33(4), for industrial applicability.

----- NEW CITATIONS -----
NONE